Exploring the Extreme 2005 Science							
Alaska Science							
Grades K-12							
Activity/Lesson	State	Standards					
Finding the Center of Gravity Using Rulers		SCI.K-12.A.1	develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific arguments;				
Finding the Center of Gravity Using Rulers		SCI.K-12.A.2	develop an understanding that the processes of science require integrity, logical reasoning, skepticism, openness, communication, and peer review; and				
Finding the Center of Gravity Using Rulers		SCI.K-12.G.3	develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational confirmation(s); and				
Finding the Center of Gravity Using Plumb		COLK 40 A 4	develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific				
Finding the Center of Gravity Using Plumb Lines	AK	SCI.K-12.A.1	arguments;  develop an understanding that the processes of science require integrity, logical reasoning, skepticism, openness, communication, and peer review; and				
Finding the Center of Gravity Using Plumb Lines		SCI.K-12.G.3	develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational confirmation(s); and				
Changing the Center of Gravity Using Moment Arms	AK	SCI.K-12.A.1	develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific arguments;				
Changing the Center of Gravity Using Moment Arms	AK	SCI.K-12.A.2	develop an understanding that the processes of science require integrity, logical reasoning, skepticism, openness, communication, and peer review; and				
Changing the Center of Gravity Using Moment Arms	AK	SCI.K-12.G.1	develop an understanding that historical perspectives of scientific explanations demonstrate that scientific knowledge changes over time, building on prior knowledge;				

			develop an understanding that scientific
			knowledge is ongoing and subject to change
Changing the Center	r		as new evidence becomes available through
of Gravity Using	'		experimental and/or observational
Moment Arms	AK	SCI.K-12.G.3	confirmation(s); and
Montent Airis	AIX	301.R-12.0.3	develop an understanding that the processes
			of science require integrity, logical reasoning,
let Drenuleien	A16	CCL K 40 A 0	skepticism, openness, communication, and
Jet Propulsion	AK	SCI.K-12.A.2	peer review; and
			develop an understanding that historical
			perspectives of scientific explanations
			demonstrate that scientific knowledge
l 5		201144224	changes over time, building on prior
Jet Propulsion	AK	SCI.K-12.G.1	knowledge;
			develop an understanding that scientific
			knowledge is ongoing and subject to change
			as new evidence becomes available through
			experimental and/or observational
Jet Propulsion	AK	SCI.K-12.G.3	confirmation(s); and
			develop an understanding of the processes
			of science used to investigate problems,
			design and conduct repeatable scientific
			investigations, and defend scientific
Vectoring	AK	SCI.K-12.A.1	arguments;
			develop an understanding that the processes
			of science require integrity, logical reasoning,
			skepticism, openness, communication, and
Vectoring	AK	SCI.K-12.A.2	peer review; and
			develop an understanding that historical
			perspectives of scientific explanations
			demonstrate that scientific knowledge
			changes over time, building on prior
Vectoring	AK	SCI.K-12.G.1	knowledge;
v ootoning	7.11.1	00	develop an understanding that scientific
			knowledge is ongoing and subject to change
			as new evidence becomes available through
			experimental and/or observational
Vectoring	AK	SCI.K-12.G.3	confirmation(s); and
Vocioning	/313	001.10-12.0.0	develop an understanding of the processes
			of science used to investigate problems,
			design and conduct repeatable scientific
Center of Gravity			
Center of Gravity,	AK.	CCI 1/2 A 4	investigations, and defend scientific
Pitch, Yaw	AK	SCI.K-12.A.1	arguments;
			develop an understanding of the processes
			of science used to investigate problems,
			design and conduct repeatable scientific
F F(f) :	1	00114.40.4	investigations, and defend scientific
Fuel Efficiency	AK	SCI.K-12.A.1	arguments;

			develop an understanding that historical perspectives of scientific explanations demonstrate that scientific knowledge changes over time, building on prior
Fuel Efficiency	AK	SCI.K-12.G.1	knowledge;
			develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational
Fuel Efficiency	AK	SCI.K-12.G.3	confirmation(s); and